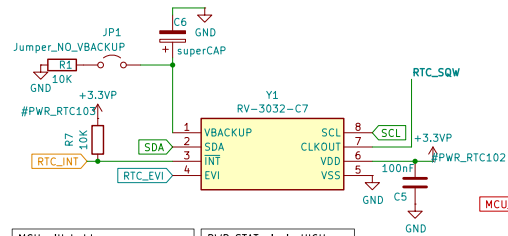
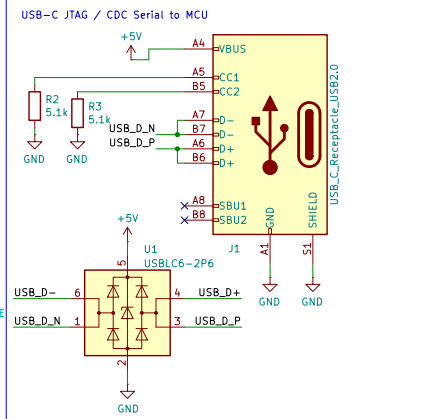
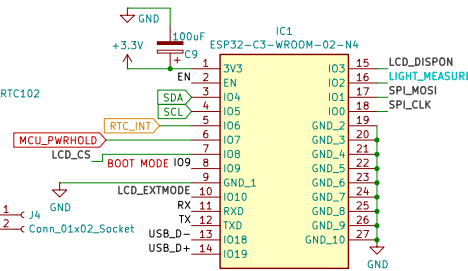


BASED on RV3032 Page 144 App.Manual
DTCXO Temp. Compensated Real-Time Clock Module RV-3032-C7
May 2023 144/154 Rev. 1.3
8.5. NO BACKUP SOURCE / EVENT INPUT USED ("WAKE-UP" & "POWER SWITCH")

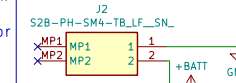


MCU will hold power once awake, Initial voltage flow when on battery is activated by the user

PWR_STAT pin is HIGH when USB is connected this also brings VDC to LDO that outputs 3V3 power

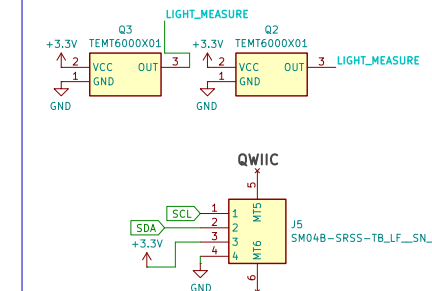


Battery jack
No battery
charging for
now

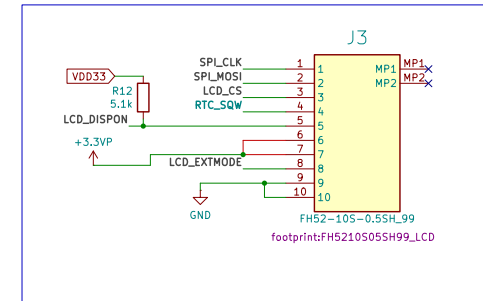


ENVIROMENTAL SENSORS

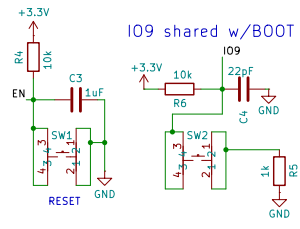
LIGHT - Q3 goes in front Layer (Hand solder)



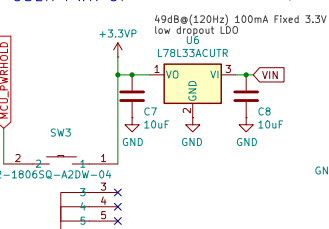
10 FPC SHARP LCD connector



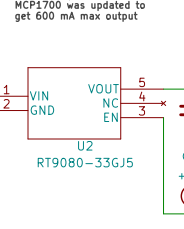
RST Push switch



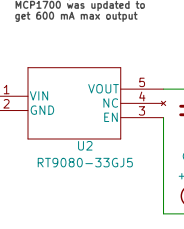
USER PWR UP



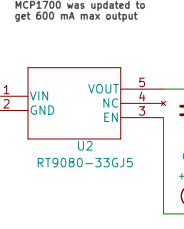
Small LDO only RTC & LCD



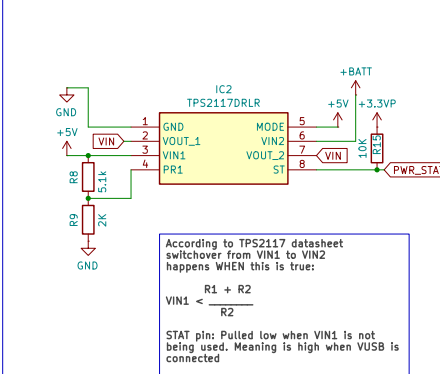
MAIN LDO powers MCU



RTC APP PWRUP



Auto Power switching VUSB vs. VBAT w/ TPS2117



According to TPS2117 datasheet
switchover from VIN1 to VIN2
happens WHEN this is true:
 $VIN1 < \frac{R1 + R2}{R2}$
STAT pin: Pulled low when VIN1 is not
being used. Meaning is high when VUSB is
connected

BASED on RV3032 Page 144 App.Manual

FASANI CORP.

Sheet: /

File: enviromental-sensors.kicad_sch

Title: Ultra low consumption all OFF

Size: User

Date: 2025-03-12

Rev: 1.0

KiCad E.D.A. 8.0.9

Id: 1/1